

0911



OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 09:49:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

3 <110> APPLICANT: Mezes et al.  
5 <120> TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
7 <130> FILE REFERENCE: 21402-240  
9 <140> CURRENT APPLICATION NUMBER: 10/044,564  
C--> 10 <141> CURRENT FILING DATE: 2002-09-09  
13 <150> PRIOR APPLICATION NUMBER: 60/261,014  
13 <151> PRIOR FILING DATE: 2001-01-11  
15 <150> PRIOR APPLICATION NUMBER: 60/261,018  
16 <151> PRIOR FILING DATE: 2001-01-11  
18 <150> PRIOR APPLICATION NUMBER: 60/313,419  
19 <151> PRIOR FILING DATE: 2001-09-10  
21 <150> PRIOR APPLICATION NUMBER: 60/261,013  
22 <151> PRIOR FILING DATE: 2001-01-11  
24 <150> PRIOR APPLICATION NUMBER: 60/261,026  
25 <151> PRIOR FILING DATE: 2001-01-11  
27 <150> PRIOR APPLICATION NUMBER: 60/261,028  
28 <151> PRIOR FILING DATE: 2001-01-11  
30 <150> PRIOR APPLICATION NUMBER: 60/313,170  
31 <151> PRIOR FILING DATE: 2001-08-17  
33 <160> NUMBER OF SEQ ID NOS: 306  
35 <170> SOFTWARE: PatentIn Ver. 2.1  
37 <210> SEQ ID NO: 1  
38 <211> LENGTH: 1837  
39 <212> TYPE: DNA  
40 <213> ORGANISM: Homo sapiens

**ENTERED**

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 09:49:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

77-1210> SEQ ID NO: 2

76 <311> LENGTH: 391

72-1212> TYPE: PRT

80 : 213: ORGANISM: *Homo sapiens*

82-1400: SEQUENCE: 2

83 Met Ser Ser Arg Ile Ala Arg Ala Leu Ala Leu Val Val Thr Leu Leu  
 84 1 5 10 15  
 85 His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys  
 86 20 25 30  
 87 Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp  
 88 35 40 45  
 89 GLY Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys  
 90 50 55 60  
 91 Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe  
 92 65 70 75 80  
 93 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu  
 94 85 90 95  
 101 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser  
 102 100 105 110  
 104 Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val  
 105 115 120 125  
 107 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly  
 108 130 135 140  
 110 Cys Pro Asn Pro Arg Leu Val Lys Val Thr Gly Gln Cys Cys Gln Glu  
 111 145 150 155 160  
 113 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Pro Met Glu Asp Gln Asp  
 114 165 170 175  
 116 Gly Leu Leu Gly Lys Glu Leu Gly Phe Asp Ala Ser Glu Val Glu Leu  
 117 180 185 190  
 119 Thr Arg Asn Asn Glu Leu Ile Ala Val Gly Lys Gly Ser Ser Leu Lys  
 120 195 200 205  
 122 Arg Ile Pro Val Phe Gly Met Glu Pro Arg Ile Arg Tyr Asn Pro Leu  
 123 210 215 220  
 125 Gln Gly Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 19:49:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

126	225	230	235	240
127	Lys Thr Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro			
128	245	250	255	
129	Glu Cys Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys			
130	260	265	270	
131	Gly Gln Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys			
132	275	280	285	
133	Thr Lys Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Leu			
134	290	295	300	
135	Ser Val Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly			
136	305	310	315	320
137	Arg Cys Cys Thr Pro Gln Leu Thr Arg Thr Val Lys Met Arg Phe Arg			
138	325	330	335	
139	Cys Glu Asp Gly Glu Thr Phe Ser Lys Asn Val Met Met Ile Gln Ser			
140	340	345	350	
141	Cys Lys Cys Asn Tyr Asn Cys Pro His Ala Asn Glu Ala Ala Phe Pro			
142	355	360	365	
143	Phe Tyr Arg Leu Phe Asn Asp Ile His Lys Phe Arg Asp			
144	370	375	380	
145	>210> SEQ ID NO: 3			
146	>211> LENGTH: 2114			
147	>212> TYPE: DNA			
148	>213> ORGANISM: Homo sapiens			
149	>214> SEQUENCE: 3			
150	aggaaattccg gtggccggcc actcccgatc gctgtgaacgc gggcacagag agtacccgtt 60			
151	qgaccacacgg tgcctccctc cttggatctt acacagacca tggcccttgc a cggcttcac 120			
152	ccctgttgtt octgtggggc ccggccctggc a ccccttcgtt tttgtgtttt ccccttcgg 180			
153	tgggtgcata ccggcaggac cttggcttggc gagacaggga cggagtctgc ccccttgggg 240			
154	qgagtcctga caaccccccata taacatttcc a ccccttcgtt cccggccaaact cttgggttt 300			
155	ccgtgtgtgg aggtgtccgg cttgacccatc gagcgtgtcc gggagcttggc ttggcccttg 360			
156	ccacagaaga atgtcaagct cttcaacatc cccgttcgtt gtttggccca cccgttcgtt 420			
157	gagcccccccg aggacccatgc ccccttcata ttggccatgc tttttttttt caacccatgt 480			
158	ccgttcttcgg ggcacccatgc ctgcacccgt ttttttttttt cccatccatc ggcacatgtg 540			
159	ccacctgtttcc cccggggggcc tcccgatc cccgttcgtt tttttttttt tttttttttt 600			
160	tgggggtgtgc ggggggtttttt cttgtttttttt tttttttttt tttttttttt tttttttttt 660			
161	tccgtttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 720			
162	ccggccatccatc cccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt 780			
163	ggggggccccc octaaaggccccc cccgttcgtt tttttttttt tttttttttt tttttttttt 840			
164	ccgttccatccatc cccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt 900			
165	ccgttccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 960			
166	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1020			
167	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1080			
168	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1140			
169	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1200			
170	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1260			
171	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1320			
172	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1380			
173	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1440			
174	ccggccatccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 1500			

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 13:43:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

187 cccaggacc tggacacgtg tgacccaagg cagctggacg tccttatacc caaggccgc 1560  
 188 cttgtttcc agaacatgaa cgggtccgaa tacttgtga agatccatc cttoctgggt 1620  
 189 gggcccccga cggaggattt gaaggcgctc agttagcaga atgttagcat ggacttggcc 1680  
 190 acgttcatga agtgcggca ggtatgggtg ctgcgttgta ctgtggctga ggtgcagaaa 1740  
 191 ctctctggac cccacgtgga gggcctgaag gggaggagc ggcacccgcg ggtgcggggac 1800  
 192 tggatcttac ggcagcggca ggacgacctg gacacgttgg ggttgggtt acaggccggc 1860  
 193 atccccaaacg gtcaccttggt cctagacccs agcgtgcaag agaccccttc gggacccgc 1920  
 194 tccttcttacg gacctggacc tgtttccacc gtcttggcac tgcttcttgcg ctccacccctg 1980  
 195 gcttgaggcc cccatccct tggatggccg agccctgtg gggatcccg ctggccagg 2040  
 196 agcaggcccg ggttgcacccs aagagaactc ggcgttgcgtt aacgggaaaca 2100  
 197 tggcccccgtgc agac 2114  
 200 <210> SEQ ID NO: 4  
 201 <211> LENGTH: 628  
 202 <212> TYPE: PRT  
 203 <213> ORGANISM: Homo sapiens  
 204 <214> SEQUENCE: 4  
 205 Met Ala Leu Gln Arg Leu Asp Pro Cys Trp Ser Cys Gly Asp Arg Pro  
 206 1 5 10 15  
 207 Gly Ser Leu Leu Phe Leu Leu Phe Ser Leu Gly Trp Val His Pro Ala  
 208 20 25 30  
 209 Arg Thr Leu Ala Gly Glu Thr Gly Thr Glu Ser Ala Pro Leu Gly Gly  
 210 35 40 45  
 211 Val Leu Thr Thr Pro His Asn Ile Ser Ser Leu Ser Pro Arg Gln Leu  
 212 50 55 60  
 213 Leu Gly Phe Pro Cys Ala Glu Val Ser Gly Leu Ser Thr Glu Arg Val  
 214 65 70 75 80  
 215 Arg Glu Leu Ala Val Ala Leu Ala Gln Lys Asn Val Lys Leu Ser Thr  
 216 85 90 95  
 217 Glu Gln Leu Arg Cys Leu Ala His Arg Leu Ser Glu Pro Pro Glu Asp  
 218 100 105 110  
 219 Leu Asp Ala Leu Pro Leu Asp Leu Leu Phe Leu Asn Pro Asp Ala  
 220 115 120 125  
 221 Phe Ser Gly Pro Gln Ala Cys Thr Arg Phe Phe Ser Arg Ile Thr Lys  
 222 130 135 140  
 223 Ala Asn Val Asp Leu Leu Pro Arg Gly Ala Pro Glu Arg Gln Arg Leu  
 224 145 150 155 160  
 225 Leu Pro Ala Ala Leu Ala Cys Trp Gly Val Arg Gly Ser Leu Leu Ser  
 226 165 170 175  
 227 Glu Ala Asp Val Arg Ala Leu Gly Gly Leu Ala Cys Asp Leu Pro Gly  
 228 180 185 190  
 229 Arg Phe Val Ala Glu Ser Ala Glu Val Leu Leu Pro Arg Leu Val Ser  
 230 195 200 205  
 231 Cys Pro Gly Pro Leu Asp Gln Asp Gln Gln Glu Ala Ala Arg Ala Ala  
 232 210 215 220  
 233 Leu Gln Gly Gly Pro Pro Tyr Gly Pro Pro Ser Thr Trp Ser Val  
 234 225 230 235 240  
 235 Ser Thr Met Asp Ala Leu Arg Gly Leu Leu Pro Val Leu Gly Gln Pro  
 236 245 250 255  
 237 Ile Ile Arg Ser Ile Pro Gln Gly Ile Val Ala Ala Trp Arg Gln Arg

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 09:49:55

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

255	260	265	270
257 Ser Ser Arg Asp Pro Ser Trp Arg Gln Pro Glu Arg Thr Ile Leu Arg			
258	275	280	285
260 Pro Arg Phe Arg Arg Glu Val Glu Lys Thr Ala Cys Pro Ser Gly Lys			
261	290	295	300
263 Lys Ala Arg Glu Ile Asp Glu Ser Leu Ile Phe Tyr Lys Lys Trp Glu			
264	305	310	315
266 Leu Glu Ala Cys Val Asp Ala Ala Leu Leu Ala Thr Gln Met Asp Arg			320
267	325	330	335
269 Val Asn Ala Ile Pro Phe Thr Tyr Glu Gln Leu Asp Val Leu Lys His			
270	340	345	350
272 Lys Leu Asp Glu Leu Tyr Pro Gln Gly Tyr Pro Glu Ser Val Ile Gln			
273	355	360	365
275 His Leu Gly Tyr Leu Phe Leu Lys Met Ser Pro Glu Asp Ile Arg Lys			
276	370	375	380
278 Trp Asn Val Thr Ser Leu Glu Thr Leu Lys Ala Leu Leu Glu Val Asp			
279	385	390	395
281 Lys Gly His Glu Met Ser Pro Gln Ala Pro Arg Arg Pro Leu Pro Gln			400
282	405	410	415
284 Val Ala Thr Leu Ile Asp Arg Phe Val Lys Gly Arg Gly Gln Leu Asp			
285	420	425	430
287 Lys Asp Thr Leu Asp Thr Leu Thr Ala Phe Tyr Pro Gly Tyr Leu Cys			
288	435	440	445
290 Ser Leu Ser Pro Glu Glu Leu Ser Ser Val Pro Pro Ser Ser Ile Trp			
291	450	455	460
293 Ala Val Arg Pro Gln Asp Leu Asp Thr Cys Asp Pro Arg Gln Leu Asp			
294	465	470	475
296 Val Leu Tyr Pro Lys Ala Arg Leu Ala Phe Gln Asn Met Asn Gly Ser			
297	485	490	495
299 Glu Tyr Phe Val Lys Ile Gln Ser Phe Leu Gly Gly Ala Pro Thr Glu			
300	500	505	510
302 Asp Leu Lys Ala Leu Ser Gln Gln Asn Val Ser Met Asp Leu Ala Thr			
303	515	520	525
305 Phe Met Lys Leu Arg Thr Asp Ala Val Leu Pro Leu Thr Val Ala Glu			
306	530	535	540
308 Val Gln Lys Leu Leu Gly Pro His Val Glu Gly Leu Lys Ala Glu Glu			
309	545	550	555
311 Arg His Arg Pro Val Arg Asp Trp Ile Leu Arg Gln Arg Gln Asp Asp			560
312	565	570	575
314 Leu Asp Thr Leu Gly Leu Gly Leu Gln Gly Gly Ile Pro Asn Gly Tyr			
315	580	585	590
317 Leu Val Leu Asp Leu Ser Val Gln Glu Thr Leu Ser Gly Thr Pro Cys			
318	595	600	605
320 Leu Leu Gly Pro Gly Pro Val Leu Thr Val Leu Ala Leu Leu Ala			
321	610	615	620
323 Ser Thr Leu Ala			
324	625		
327 <010> SEQ ID NO: 5			
328 <211> LENGTH: 852			

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/044,564

DATE: 09/18/2002  
TIME: 09:49:56

Input Set : A:\Cura540.txt  
Output Set: N:\CRF4\09182002\J044564.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 599  
Seq#:12; Xaa Pos. 184  
Seq#:21; N Pos. 1,3  
Seq#:80; Xaa Pos. 1  
Seq#:90; Xaa Pos. 8,235  
Seq#:99; Xaa Pos. 251  
Seq#:112; Xaa Pos. 160,161,162,163